REMARKS

As an initial matter, Applicant believes that the finality determination for the Third Office Action mailed February 13, 2009, is incorrect according to MPEP §803.02 for the reasons described below, and is therefore improper. In the sole interest of facilitating prosecution, Applicant re-presents the amendments and reiterates the arguments that were submitted in the Response to Final filed April 7, 2009, and files herewith a Request for Continued Examination.

The claims pending in the Application after entry of the present Amendment will be claims 1-42 and 45-47. Claims 43-44 and claims 48-62 have been canceled without prejudice. Claim 41 has been amended to insert "-OAc" and "oxo" such that the dependency of claim 42 on claim 41 is correct. Claims 11, 12-15 and claims 23-25 have been amended to correct typographical and syntax errors. Claims 1 and 11 have been amended to delete hydrogen. No new matter has been added by these amendments. Applicant reserves the right to pursue any canceled subject matter in future applications that claim priority to the present application. None of the above amendments add new matter to the claims.

I. Improper Final Rejection

As previously argued, Applicant submits that the finality of the Third Office Action mailed February 13, 2009, is premature. This third Office Action withdrew all rejections of record except for a 35 U.S.C. §112, first paragraph rejection and a 35 U.S.C. §112, second paragraph rejection. Additionally, this third Office Action issued a new ground of rejection under 35 U.S.C. §102(b), based on a newly cited reference, GB 1036084.

Specifically, when responding to the Second Office Action, on December 5, 2008, Applicant had substantially *narrowed* the claims from the earlier claims set forth February 26, 2008. Given that the Examiner issued a new ground of rejection based on new reference GB 1036084 in this Third Office Action, Applicants' December 5, 2008, amendments could not have properly necessitated a "Final" action issuance in this Third Office Action. If GB 1036084 had anticipated the December 5, 2008 substantially narrowed claims, then GB 1036084 must also have anticipated the earlier February 26, 2008 claims. Thus, the Examiner could have levied the 35 U.S.C. §102(b) rejection based on GB 1036084 against the earlier claims (in the Second Office Action), at the same time the other art rejections were levied. Instead, the Examiner did not levy the rejection based on GB 1036084 until after Applicant responded to the first set of art

rejections on December 5, 2008. Further, had Applicant received a rejection based on GB 1036084 along with the previous art rejections (in the Second Office Action), then Applicant would have appropriately addressed GB 1036084 at that same time, i.e., on December 5, 2008. Thus, it is Applicants' belief that the rejection based on GB 1036084 was a *new* ground of rejection that was *not* necessitated by Applicants' amendment submitted December 5, 2008. Therefore, the finality of the Third Office Action was premature, as described in MPEP §§ 706.07 and §803.02.

Notwithstanding the above, the Examiner has levied an improper §102(b) rejection over GB 1036084 as explained below.

II. Rejection under 35 U.S.C. §102(b)

Claims 1, 11, 16 and 27 are rejected under 35 U.S.C. §102(b) as being anticipated by GB 1036084. According to the Examiner, GB 1036084 anticipates claims 1, 11, 16 and 27 because it teaches 7-hydroxycyclotetradecanone of the below structure:

7-hydroxycyclotetradecanone

Respectfully, the Examiner is incorrect, as the compounds of Formula I recited in the present claims do not encompass 7-hydroxycyclotetradecanone. Specifically, 7-hydroxycyclotetradecanone is a 14-membered ring system wherein a hydroxy substituent is present at the 7th carbon of the system (i.e., the carbonyl moiety is the 1st carbon of the ring system). Alternatively, counting counter-clockwise around the ring, the hydroxy substituent is present at the 9th carbon of the ring system.

By contrast, Applicants' present claims recite Formula I, as depicted below (in the embodiment where n=3).

Applicants' Formula I wherein n=3

Specifically, substituent " R^2 " is at the $7^{th}/9^{th}$ carbon of Applicants' ring system. " R^2 " does not allow for hydroxy substitution in Applicants' claims. Hydroxy substitution at the $7^{th}/9^{th}$ carbon position would be required in order for GB 1036084 to anticipate the claimed genus. It is at least for this reason that GB 1036084 does not anticipate Applicants' claims. Additionally, Applicants' compounds require an " $-OR_3$ " substituent at the 8^{th} carbon from the carbonyl moiety, whereas 7-hydroxycyclotetradecanone requires only hydrogen at that position. Applicant notes that R_4 = hydrogen has been deleted from the current claim scope thereby

requiring substitution of the 7th carbon by halogen, -OR^{4A}, oxo, -OC(=O)R^{4A}, OCH₃ or -NR^{4A}R^{4B}, providing yet more differences from the cited compound. Therefore, Applicant respectfully submits that GB 1036084 cannot anticipate (or render obvious) the presently claimed invention.

Accordingly, Applicant submits that the rejection under 35 U.S.C. §102(b) should be withdrawn.

II. Rejection under 35 U.S.C. §112, para. 1

The Office Action maintains a rejection of claims 48-62 are rejected under 35 U.S.C. §112, first paragraph, on the ground that "the specification does not reasonably provide enablement for treating breast tumor metastasis in a subject." (see page 3 of the Office Action). Specifically, the Examiner has indicated:

"Applicant has narrowed the scope of the claims, however, the data potentially supporting a method for treating a breast tumor was still far more narrow than the scope of the claims. This conclusion was based on the few data points provided on a very limited number of compounds in the specification. If Applicant has a data compilation supporting the enablement of the claimed scope, the examiner would be willing to withdraw the rejection."

Applicant respectfully disagrees with the Examiner. Not only did Applicant present amendments in their previous response that narrowed the claimed genus of compounds substantially, but the specification sufficiently enables compounds treatment of breast cancer. In fact, Applicant presented data directed to inhibition of lung metastasis in Example 57 (paragraph [0559]), which corresponds to Figure 4. Thus, the data set forth by Applicant regarding lung metastasis is sufficiently predictive of inhibition of breast metastasis, as presented in Example 56 (paragraph [0556]. Applicant additionally articulates at paragraph [0241] the following relationship between lung metastasis and breast metastasis:

"The highly aggressive and invasive 4T1 cells are routinely used as model for evaluating test compounds for the treatment of human <u>breast cancer</u>, because the progressive spread of 4T1 cells to lymph nodes, <u>lungs</u> and other organs can be seen to <u>mimic metastasis of human mammary cancer</u>." [Emphasis added by Applicant].

Moreover, Applicant also demonstrates that particular compounds do in fact work to treat breast cancer, see Examples 56-57 and Figure 4.

Notwithstanding the above, in order to expedite prosecution, Applicants cancels claims 48-62 such that the rejection under 35 U.S.C. §112, paragraph 1 is rendered moot.

V. Rejection under 35 U.S.C. §112, para. 2

Claims 43-44 are rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. Specifically, the Examiner asserts that:

". . .there is not a sufficient disclosure to support enablement of the method of treating breast cancer as it would require undue experimentation, similarly, one of ordinary skill in the art would need to practice undue experimentation to arrive at the appropriate dosage level."

Applicant respectfully disagrees with the Examiner. Applicant maintains that the teachings of the present specification as outlined by Applicant (at page 30) of the December 5,

2008, response provide clear guidance regarding the meaning of the phrase "an amount effective

to inhibit metastasis/angiogenesis." Furthermore, Applicant submits that one skilled in the art

would clearly know how to optimize a dose(s), particularly when provided with: (a) the multiple

biological assays as provided throughout the instant specification; (b) data showing that

particular compounds act to treat breast cancer (see Examples 56-57 and Figure 4); and (c) the

dosage level limitations in claims 1-10.

Moreover, the Examiner has set forth no argument, factors, reasons or evidence as to why

one skilled in the art would need to perform "undue experimentation" as required by MPEP

§2164.04.

Notwithstanding the above, in order to expedite prosecution, Applicants cancels claims

43-44 such that the rejection under 35 U.S.C. §112, paragraph 2 is rendered moot.

In light of the above Remarks and Amendments, Applicant respectfully submits that the

present case is in condition for allowance. A Notice to that effect is respectfully requested.

Applicants invite the Examiner to contact the undersigned, Julie Anne Knight, at (617) 248-

5227, with any questions pertaining to the above-identified application in order to expedite

prosecution of this case.

Respectfully submitted,

Dated: May 13, 2009

/Julie Anne Knight/

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